

Claims

- [c1] An oven insert for a gas generating system of the type that includes heating elements, heat exchanger, a gas generating module, an air inlet, and a product gas outlet, the invention comprising:
- a furnace enclosure member having a plurality of interior chambers each adapted for holding at least one gas generating module.
- [c2] The invention of claim 1 wherein the interior chambers each have an opening formed in the exterior of the furnace enclosure member; and the openings are uniformly separated along a central axis of a face of the furnace enclosure member.
- [c3] The invention of claim 1 wherein the furnace enclosure member includes embedded heater elements providing uniform heat distributed about the interior chambers.
- [c4] The invention of claim 1 wherein an interstitial wall is formed between adjacent interior chambers.
- [c5] The invention of claim 4 wherein the interstitial wall is composed of a material having a desired thermal conductivity characteristic different from material comprising the remainder of the furnace enclosure member.

- [c6] The invention of claim 4 wherein the interstitial wall includes a chamber for a fluid.
- [c7] The invention of claim 6 wherein the fluid flows through the chamber.
- [c8] The invention of claim 1 wherein the furnace enclosure member further comprises at least two separate enclosure bodies, each separate enclosure body having at least one interior chamber.
- [c9] The invention of claim 8 wherein the separate enclosure bodies having an outer surface formed to be compatible with an outer surface of an adjacent separate enclosure body.